© 1990 COPYRIGHT BY
DATA PROCESSING DIGEST, INC.

Data Processing Digest

3848 FREDONIA DRIVE, • LOS ANGELES, CALIFORNIA • 90068

PUBLISHED EACH MONTH SINCE 1955

VOLUME 36, 1990

1990 ANNUAL SUPPLEMENT

INDEX AND REFERENCE LIST

Title Index 1
Author Index 5
Subject Index 7
Periodical List 11

INDEX

This is the annual index for DATA PROCESSING DIGEST for the year 1990, Vol. 36, Nos. 1-12. The index is divided into three sections: the list of titles as they appeared in the Digest, a list of authors, and a subject index. All articles have at least one subject citation. Italicized titles are books, periodicals or reports. The numbers following the entries indicate issue and pages in which the item is found. The number preceding the hyphen is the issue; the numbers following the hyphen are the pages.

TITLE

AD/Cycle, 3-3
Adopting Object-Oriented Technologies: An IS Manager's Checklist, 11-4
Advantage: EDI, 6-22, 7-20
Affecting the Software Development Process, 10-13
AI & Expert Systems Myths, Legends and Facts, 5-29
The AIDS Information Diskette—A New and Nasty Trojan Horse, 3-21
Air Canada To Soar On Knowledge-Based Scheduling, 4-13
AIX and SAA, 3-4
Application Reviews Of End-User Spreadsheet Design, 1-18
Are Fax Machines Really Delivering As Promised?, 6-19
Are You Locked In Your Lotus Position?, 4-23
Are You Ready For Cooperative Processing?, 6-12
Are You Ready For a Repository?, 5-10
The AS/400 and the LAN, 7-4
Assuring the Quality Of Externally Developed Code, 12-8
Asynchronous Communication Servers, 3-11
AT&T's UNMA/OSI Solution, 5-26
Audit Concerns In Electronic Data Interchange, 5-22
Auditing a Session Manager, 11-23
Auditors Should Be Aware Of EDI's Legal Issues, 5-23
Author Of AIDS Disk Arrested, 6-4
Back To the Future, 4-29
Backups: Can You Ever Be Too Safe?, 7-16
Banking On the AS/400, 4-12
BASISplus Premiered At INFO '89 Conference, 1-22
The Battle Of the Network Architectures, 1-24
The Battle Over Internetwork Management Standards, 3-10
A Battle ROI-al, 9-2
Becoming an IS Mentor, 2-14
Beyond Customer Satisfaction, 5-1
Beyond Hypertext Hype, 1-21
Beyond Relational Databases, 8-4
Biometrics: The Ultimate In Access Control?, 12-17
Breaking Free From Backup Tangles, 9-18
Bridging the Gap Between Users and MIS, 8-9
Building Effective Project Teams, 8-11
Building Large, Dynamic Hypertexts: How Do We Link Intelligently?, 3-22
Building Market Information Systems, 4-27
Building More Flexible Systems, 1-6
Building Testable Software: Integrating Test Awareness Into Software Development, 10-12
Buildings With Smarts, 11-26
Business Telecommunications, 6-27

A Call For Distributed Computing, 3-12
Callpath Offers Voice and Data Integrated Applications Solutions, 10-16
Can Managers Trust Statistics?, 2-15
The CASE/DBMS Connection, 10-15
CASE: Enhancing Capabilities and Expanding Horizons, 2-9
CASE For the AS/400, 1-12
A Case For Early Auditor Involvement In the CASE System Development Life Cycle, 8-18
CASE For Expert Systems, 4-34
The Case For Formal Methods In Standards, 12-9
CASE: Guidelines For Success, 1-11
CASE: An Industry In Flux (Part 2), 1-10
The CASE Of the Missing Links: The Current State Of CASE Standards Efforts, 11-18
CASE: A Peek At Commercial Developers Uncovers Some Clues To the Mystery, 6-18
Certifying Computer Competence, 11-24
The Challenge Of Integration, 9-14
The Changing Of the Guard In Software Quality, 4-6
Changing Responsibilities For Audit and Security Information Resources, 7-9
The Changing Role Of Support Providers In the Datacenter, 12-11
Charter Of Responsibilities For a Contingency Planning and Disaster Recovery Function, 6-3
Choosing the Right Network Operating System, 1-25
A Clear View For Windows, 4-12
Clearing the Dusty Decks, 6-11
Client-Server Computing For the Sophisticated LAN, 2-7
Cobol—The Next Stage, 10-15
Commercial Benefits Of OSI, 9-15
The Coming Of ISDN, 3-10
Common Data Bases, an Idea Whose Time Is Coming, 9-23

Compaq Creates a New Class Of Personal Computer, 4-32
Comparison Of uniVerse & Pick/UNIX, 9-12
A Computer-Aided Approach To Manufacturing Quality, 5-3
Computer Audit, Control, and Security, 7-26
Computer Crime and the Computer Fraud and Abuse Act Of 1986, 11-30
Computer Downsizing: Giving Big Iron the Boot, 2-14
Computer Malpractice, 6-25
Computer-Related Crime and Auditing In the Nineties, 8-19
Computer-Related Fire Problems Revisited, 2-19
Computer Virus Recovery Planning—an Auditor's Concerns, 6-5
Computer Viruses: Nuisance Or Corporate Threat?, 1-17
Computer Viruses: A Pressing Issue For Top Management, 7-7
Computer Viruses: A Protection Guide For Microcomputer Users, 6-5
Computer Viruses: What They Are, How To Protect Against Them, 1-17
The Computer Worm, 3-24
Computers Built Like the Brain, 2-24
Computers: The Next Generation, 6-28
Consolidated System Management, 4-24
Consortium Defines New Focus On Member Needs, 12-21
Contingency Planning—Preparing For the Worst, 3-19
Cooperative Processing, 6-8
Coordination Of Information Systems Plans With Business Plans, 3-18
Copyright Of Computer Display Screens: Summary and Suggestions, 4-7
Copyright and Patent Protection For Computer Software: Are They Mutually Exclusive?, 10-25
Corporate Acquisition: MIS Can Rise To the Challenge, 7-3
A Corporate Software Policy, 9-1
Cost/Benefit Analysis—the Sordid Truth, 7-4
Cost Effective Computer Security, 6-1
The Costs Of Owning a Network, 12-14
Counting the High Cost Of Personal Computing, 7-6
Crackdown On Software Pirates, 4-7
Critical Analysis Of Tools For Computer-Aided Software Engineering, 3-2
Cultural Barriers Slow Reusability, 2-2
Curing Data Access Bottlenecks, 4-33
Customer Closeness At Bergen Brunswig, McKesson, 5-6
Customer Satisfaction & Software Services: Oil and Water?, 9-13

The DASD Revolution, 1-7
Data and Computer Communications: Terms, Definitions, and Abbreviations, 3-26
Data Flow Diagrams For Managerial Problem Analysis, 4-16
Data Security On Distributed Networks, 9-17
Database Migration: Keeping a Steady Course, 7-15
Database Projects: A Framework For Effective Management, 3-26
The Database Server Games Begin (Part I), 1-7
The Dawn Of MAN: A Promising Way To Connect LANs, 8-22
DBMS: Next Wave Could Be an Easier Ride, 5-11
DB2 & IMS: Achieving Peaceful Coexistence, 8-10
DEC CASE, 4-18
Decentralization: Riding the Wave, 9-20
Decision Support For Middle Managers, 2-16
Departmentalization In Software Development and Maintenance, 8-9
Design Composer Prototype Explores Large Scale Reuse, 3-2
Design-Induced Errors In Computer Systems, 12-24
Design Distributed Applications, 1-4
Determining the Asset Value Of Information, 6-23
Determining Automation Needs: Seven Critical Concerns, 5-15
Developing an Information Systems Architecture: Changing How Data Resource Managers Think About Systems Planning, 11-5
Developing Neural-Network Applications, 11-29
Development Challenges Of Distributed Systems, 3-7
Dimming For Dollars, 2-12
Do a Data Center Makeover, 9-2
Do the Specs Before You Do the Contract, 10-6
Do You Know Where Your Changes Are?, 6-10
DOD-Grade Security Comes to LANs, 7-20
Dual Career Paths For Technical Professionals, 4-24
Dvorak's Guide To PC Telecommunications, 9-26

Early Wins Are Key To System Success, 4-15
EDI and American Law: A Practical Guide, 7-25
EDI—Contractual and Liability Issues, 7-23
EDI: Control and Audit Issues, 5-24
EDI Implementation Considerations, 6-22
EDI Yellow Pages, 2-9
EDI Yellow Pages International, Edition VI, 12-16
Educating Management On End-User Computing, 9-3
Effectively Managing Parallel Development, 5-14
Eight Steps To Aggressive User Training, 8-10
EIS: Big-League Decision, 2-16
EIS and the Collapse Of the Information Pyramid, 5-4
Electronic Data Interchange—Take a Close Look Before Getting On the Wire, 6-20
Electronic Transactions Require Changes In Laws, 2-20
Eliminating the Fudge Factor, 6-22
The Employee's Role In Protecting Information Assets, 1-14
Encyclopedia Of Information Systems and Services, 7-25
End-User Computing Management, 9-26
End-User Computing—Special Report, 2-17
Evaluating a Disaster Recovery Plan, 3-19
Every Little Bit (and Byte) Counts—Network Testing Insures Data Transfer, 9-16
Everything Old Is New Again, 5-19
The Evolutionary Growth Of Software Reengineering and the Decade Ahead, 12-5
Executive Information Systems, 7-6
Executive Information Systems: What Color Is Your EIS?, 9-19
Experiences In Use Of SSADM: Series Of Case Studies—Part 1: First Time Users and Part 2: Experienced Users, 2-3
Expert System Development: A Retrospective View Of Five Systems, 9-25
Expert System Security, 10-19
Expert Systems: Critical Success Factors For Their Implementation, 3-23
Expert Systems Power Automated Job Schedulers, 10-21

A Faster Data Delivery, 5-28
Fault-Tolerant Computing: Fundamental Concepts, 10-13
Fibre Optic LAN Systems and Costs, 5-28
Fifteen CIOs Tell How Their Predecessors Could Have Made Life Easier, 12-3
Financial Software—You Can't Remodel Around the Old Supports, 7-5
First Trial Of Antitrust Issues Between Independent Service Organizations and Computer Manufacturers Results In Verdict For ISOs, 12-23
Five AI Failures To Avoid, 6-26
The Five Audit Attributes Of Applications Software, 7-10
Five Steps To Getting Started With SAA, 6-9
The Flesh and Blood Of Network Planning, 8-19
Flexible Workers, 10-18
Forecasting From Business Volumes, 10-21
Forgotten Types Of Testing, 2-4
4GLs and CASE: What's the Payoff?, 7-16
4GLs From the IS Manager's Perspective, 11-4
The Four Keys To Implementing EDI, 3-15
Four Software Tools Catalogs: A Comparative Review, 11-14
Fraud Detection via Regression Analysis, 8-17
From CIM to IMS Spelled Success At 3M, 5-6
From Data Modeling To Management Decisions, 9-20
Full Network Protection Cuts LAN Downtime, 10-23
Function Points vs. Lines Of Code, 11-8
Function Points—A Potent Tool, 1-9
Fundamentals Of Bar Code Information Theory, 6-23
The Future Of EDI, 6-21
The Future Of Education and Training, 11-27
The Future Of Network Management, 2-8

Get It Together, IBM, 12-18
Getting a Grip On Costs, 9-22
Getting More From MIS, 2-18
Getting Networked, 6-19
Getting the Word, 1-19
Glue: Software That Sticks Software Together, 11-15
The Greening Of the Network, 10-25
A Guide To Application Development, 1-3
A Guide To Evaluating the Distributed Environment, 6-6

A Hardware Approach To Software—Reusable Parts, 3-2
"Hello, Europe, Are You There?," 1-26
Help Desks and the Support Of Support, 9-3
Help! My Software Maintenance Is Out Of Control, 4-14
Helping Users Help Themselves, 2-13
High-Impact Planning, 5-3
High Performance Without Compromise, 9-9
How Can Professional Standards Be Set and Maintained?, 8-15
How Downsizing Is Shaping OS/400, 12-18
How Open System Suppliers Differ, 8-5
How Solid Is Your Site?, 7-2
How to Avoid the Five Biggest Downsizing Errors, 8-13
How To Develop Neural-Network Applications, 8-25
How To Get the Most Out Of DOS, 12-19
Hypertext and Hypermedia In Today's Information Environment, 1-21

I Survived Outsourcing, 10-5
IBM and DEC In Computer Integrated Manufacturing, 7-19
IBM Introduces Technical CASE Solutions, 8-2
IBM Is "Bundling" Again—for a Reason!, 9-14
The IBM RISC System/6000, 6-26
Identification Of Errors In Software Requirements Through Use Of Automated Requirements Tools, 3-8
The Impact Of Electronic Data Interchange (EDI) On a Company's Security and Internal Controls, 11-22
The Impact Of Print Services, 10-22
Implementing an Executive Information System: Seven Steps For Success, 5-15
Improving Performance By Reducing I/O, 12-10
In Search Of: SAA Applications, Skills, Plans, 5-9
Individual Privacy and Governmental Efficiency: Technology's Effect On the Government's Ability To Gather, Store, and Distribute Information, 2-21
Inference Engines For the Mainstream, 4-35
Information Systems In a Regulated World, 10-20
Information Systems Quality Assurance Enhances Information Systems Security, 8-13
Information Technology: Bridging the Gap Between Promise and Reality, 4-27
Insight Into Object-Oriented Databases, 8-4
Installing AI Tools Into Corporate Environments, 8-24
Insurers Will Rescue Only What You Protect, 7-8
Integrated Services Digital Networks (ISDN) Tutorial, 2nd Ed., 7-27
Integrating Information Systems Using a Unified Data Architecture, 6-7
Intelligent Database Engines, 9-10
Intelligent Databases, 4-4
Intelligent Workstations—Yet To Come, 6-10
The Interface Between SSADM and Capacity Planning, 2-3
International Legal Protection For Software, 6-25
An Interview With William G. Smith, 4-25
Introducing Process Models Into Software Organizations, 11-8
An Introduction To Ethernet, 11-21
Introduction To Object-Oriented Databases, 4-16
An Introduction To Speech and Speaker Recognition, 12-24
Is IBM's New Kid Ready For Midrange Business?, 9-13
Is Your Data Ready For the Repository?, 3-4
ISDN and LANs? Huh?, 10-23
ISDN: A New Path To LAN Connection, 2-5
It's Time To Retrain!, 10-9

JIT and Fitness For Use, 5-5
JIT Redefines the Standards, 1-23

Keep Your LAN Humming Through Fine Tuning, 5-27
The Key Tree, 3-6
Keys To Success With CASE Tools, 10-15
King COBOL—Deposed At Last?, 9-5
Knowledge Acquisition In a Medical Domain, 10-26
KnowledgeWare's Application Development Bench, 12-20

LAN Ho! Navigating Downsized Data, 8-12
LAN Local Area Networks: Developing Your System For Business, 12-26
LAN Software: Network Glue, 5-26
Leadership and Team Building In the New Corporation, 5-5
Learn What User-Friendly Really Means, 8-21
Learning SQL the Easy Way, 4-13
Learning To Cure Technical Obsolescence, 9-22
The Lessons For CASE Vendors In MIDI, 4-21
Lewis and Clark and the IC, 11-6
Living On the Fault LAN, 11-20
Locating Real Computer Resource Bottlenecks and Data Analysis, 5-18
A Look At Low-End LANs, 2-6
A Low-Cost LAN Alternative, 10-24
Low-Overhead Capacity Planning, 12-10

Making the Case For Integrated Systems: Evaluating Dictionary Technology, 6-7
Making Total Quality Happen, 9-24
Making Work Groups Work, 6-15
Manager's Guide To Computer Viruses, 3-22
The Manager's Guide To Desktop Electronic Publishing, 12-25
Managing DB2 Performance, 8-7
Managing Information Supply and Demand, 11-3
Managing Information Through Systems Architecture: The Systems Logic Integration Approach, 10-9
Managing the Software Process, 5-30
Managing Technical Professionals, 5-17
Manufacturing Software: The Applications Are Back!, 9-25
The Many Flavors Of Testing, 5-9
Map Data Processing In Geographic Information Systems, 2-26
MAP In the U.S.—Emerging Or Submerging?, 2-19
Mapping OSI Migration Moves, 9-15
Marketers Dig For Openings In a Blizzard Of Raw Data, 12-21
Maximizing the Chances For Winning Computer Litigation: Part 1, 8-27
Measuring OLTP With a Better Yardstick, 9-8
Mechanizing Mathematics, 2-23
A Memo To the EIS User, 4-27
Micro To Mainframe, 1-8
Microprocessor Memory Management Units, 7-22
Migrating To Open Systems From Proprietary Systems—Simple Isn't It?, 10-11
Minicomputers: For Each Buyer, a Different Perspective, 12-2
An MIS Manager's Guide To Hiring Programmers, 5-16
Missing Link, 4-28
The Mix-and-Match LAN, 3-13
A Model For Security In Distributed Systems, 8-16
Modeling Helps It Happen, 4-13
Modernizing Mainframe Applications: Low Cost, Low Risk Solutions, 8-4
Motivating Analysts and Programmers, 4-21
Move Over, Unix: Here Comes Mach!, 7-17
Moving Toward High Quality and Productivity, 5-2
Musings On Multimedia, 4-3
My Rules For Creativity, 12-13

The Need-To-Know Of Neural Networks, 2-24
Needed: Creativity In System Design, 1-3
Needles In the Haystack: How Much Testing Is Enough?, 11-17
Network Q & A: Tips and Strategies For Departmental Networking, 3-14
Network Security: Control Versus Convenience, 12-15
A Network Security Primer, 4-30
Neural Networks For Diagnosis and Control, 6-11
A New Database For New Times, 4-16
A New LAN Standard Lights the Way, 7-21, 8-21
A New Look For Optical Networks, 12-16
A New Rival To Ethernet and Token Ring?, 3-11
New Technologies For Coordinating Work, 8-25
$9 Million Computer Blackmail Plot, 4-5
1990 Database Buyers Guide, 8-7
No More Manic Media Choices, 10-23

Object Orientation and Its Software Implementation, 7-13
Object Orientation: What It Is, and What It Means For Data Management, 2-1
Object-Oriented COBOL, 4-9
Object-Oriented Computing Tutorial, 2 Vol. Concepts, Implementations, 7-26
Object-Oriented Design, 11-13
ODA and Document Interchange, 5-12
Off-the-Shelf Life, 10-5
On RPG Programmers, 1-2
Opportunities: Nine Steps To a Better Information System, 10-2
Optical Storage: A Close Look, 4-33
Optimizing Mainframe Tape Operations, 10-21
Organization and Management Of Systems Prototyping, 8-3
OS/2 Beginning To Take Shape, 6-17
OS/2 In Perspective, 9-12
OS/2 Presentation Manager Development Tools, 4-11

OS/2 Software—It's a Matter Of Time and Planning, 3-5
Outlook: Managing the Physical Network, 4-29
Outlook: The PBX-LAN Partnership, 3-12
Outsourcing: Who Pulls the Strings?, 11-2
Outsourcing's Hidden Cost Bite, 12-2

Paths To Information Power, 10-1
PC Development and Mainframe Power, 7-13
PC Power Drives Demand For Token Nets, 8-22
Performance Management and Optimization: Getting the Most Out Of What You've Got, 12-11
Pick ACCESS: A Guide To the SMA/ Retrieval Language, 6-27
Pick/UNIX: A Dynamic Duo!, 4-10
Pinpointing Production Turnover Problems, 5-18
Pleasing the Eye, 1-20
The Politics Of Standards and the EC, 9-4
Practical Console Automation, 12-10
Practical TSO/ISPF For Programmers and the Information Center, 3-24
Preparing For Repositories, 11-12
Preparing For VS Cobol II, 2-11
Preventing Problems In the International Marketing Of Computer Software, 7-23
The Principle Of Engagement, 6-16
Principles Of Secure Information Systems Design, 5-19
Problem-Solving Tools That Count, 3-8
The Problems With Audit Software, 1-18
Productivity Measures Help Information Technology Fulfill Promise, 6-13
Productivity Now, Payment Later, 6-14
Program Specs: What the System Does, 5-7
The Promise and Problems Of Fractional T1, 3-14
The Promise and the Reality Of AD/Cycle, 11-11
Prospects For OSI—Today—and Tomorrow, 10-25
Prototyping: Helping To Build the Right Software, 8-3
The PTS: Tracking the Elusive Software Bug, 5-9

Quality Measurement: Two Very Different Ways, 9-7
Quality Vendor Contracts, 7-3
Questions and Answers About Tiger Teams, 1-15
A Quick MVS Tune-Up, 7-14
Radio Frequency Data Systems Improve In Materials Handling and Warehousing Operations, 11-24
Raising the IS Platform Through Segment One Information Strategies, 4-22
Random Bits & Bytes, 3-21; 7-10, 11
Rattling SABRE—New Ways To Compete On Information, 9-22
The Realities Of CASE, 8-2
Red Line's Healthy "Edge," 12-23
Reengineering—Leveraging Your CASE Investment, 12-6
Reengineering Work: Don't Automate: Obliterate, 10-17
A Report On the Panama Diskette, 4-5
The Repository's Role In CASE Integration, 4-20
The Requirements For an IRM Environment, 8-11
Retrieval Services With Broadband ISDN: Access To Information and Information Processing, 2-25
Reverse Engineering, Reusability, Redundancy: The Connection, 12-5
Reverse Engineering: What and Why, 12-5
The Ride Is No Bargain If You Can't Steer, 3-16
Right and Wrong, 5-12
The RISC Style Of Architecture, 7-22
The Road To the Global Village, 4-1
The Role Of the IRDS, 6-8
The Role Of Software Quality Assurance Managers As Epidemiologists, 7-7
SAA and AIX: Tying the Two Worlds Together, 6-17
SAA and the Application Development Environment, 4-18
SAA Distributed Relational Data Architectures Announced, 10-17
SAA Today—Because Every Car Needs Snow Tires, 3-4
SAA & UNIX, 4-10
Salvaging Existing Systems, 9-6
SAS: Architecting an Open Strategy, 9-12
The Scoop On OOPS, 11-13
A Second Wave Of Outsourcing Starts To Form, 11-3
Securing Private Data On Insecure Public Networks, 8-16
Security: Biometrics Creep Into Business, 8-17
Security Is Big Business, 1-13
Seizing the Technological High Ground, 6-24
Selecting a Data Base Environment: Decentralized, Hybrid, or Centralized, 6-7
Setting the Stage For Converting To DB2, 4-17
Seven Myths Of Formal Methods, 12-9
Shadow: Fusing Hypertext With AI, 2-22
Shearson's Image Of Groupware, 6-25
Shifting Gears From 3GL to 4GL, 3-1
A Short Course In Architecture, 7-18
Signing Up for Online: The Legal Pitfalls, 7-24
Skills For the New CICS, 12-12
Slaying the Jabberwock: Solving the Documentation Dilemma, 11-10
Small Wagers Can Pay Off, But Don't Bet the Farm, 2-5
Smaller (and Proud Of It), 3-17
SNA and OSI: Three Strategies For Interconnection, 5-25
Software Architecture Options For Distributed DBMSs, 6-7
Software Configuration Management, 11-16
Software Configuration Management—Who Needs It?, 10-13
Software Maintenance: The I/S Profit Focus For the 1990s, 12-1
Software Quality Assurance, 5-9
Software, RF Produce Paperless Tracking, 12-22
Software Testing Management: Taking Hold, 5-7
Software Testing: Seven Of the Deadly Sins, 5-8
Software Vendors' Exposure To Product Liability For Computer Viruses, 4-8
Solving Software Problems, 6-18
Sorting It Out: Perspectives On Unix and AIX, 7-17
Special Issue: Peopleware, 10-4
Specification Compilers, 7-12
Staff Development: What To Do When There's No Way Up, 6-16
Standards Help Integrate Management Of Network, 3-9
The Standards Process Breaks Down, 11-19
Staying On Top Of Network Control, 7-20
Storage Technologies: Putting Data In Its Proper Place, 10-14
Straightforward Capacity Planning, 9-9
Strategic Program Maintenance, 9-5
Strategic Project Management: A Guide To Proactive Planning, 5-18
Strategic Training, 12-12
Streamlining the Corporation Of the 90s: Toward the Information-Based Organization, 10-17
Structuring Your Strategy With Customer Information Files, 10-18
Supplement In-House Staff With a Network Services Contract, 6-19
A Survey Of Parallel Computer Architectures, 4-31
Survey Your Way, 5-15
System Development Gate Reviews—How To Implement Them—How They Help, 4-15
Systems Integration—An Integrator's Perspective, 10-2
Systems Integration 3X/400 Style, 12-7

Tailor-Made Auditing Of Information Systems For the Detection Of Fraud, 5-21
Taking a Distributed Approach, 11-25
Taking a Stand Against Computer Viruses, 4-6
Taming the Rat's Nest, 11-26
A Tangible Strategy For Developing Network Platforms, 5-27
Technology and the DP Shop: Designware Changes Software Development, 3-7
Test Libraries: Management By Design, 9-7
Testing Your Testing Program, 7-13
Text-To-Speech Conversion On a Personal Computer, 11-30
Text-To-Speech Conversion Technology, 11-28
37 Ways To Improve Training (That You Might Not Have Thought Of), 1-2
Timebox Methodology, 6-9
To Outsource Or Not To Outsource—Here Is the Answer, 10-4
A Tool For Detecting Expert-Systems Errors, 5-30
The Top 40 Keys To Competitive Design, 8-26
Total Quality Program Change Control, 10-19
Traffic Technology Is Taking Off, 10-26
Training Wheels In Motion, 2-17
Troubleshooting Networks, 12-16
The Trusted Person System, 1-12
Trusting Outsiders With Strategic Projects, 1-1
12 Tips For Better Systems Implementation, 10-3
20 Ways to Avoid an Upgrade, 8-8
21st Century Outsourcing, 7-1
Two (Of Many) Problems In EDP Auditing, 6-5

Understanding Data Communication Security Vulnerabilities, 7-11
The Universal Elixir, 11-7
UNIX & Pick: The Best Platform For the Future, 6-17

Unix For Programmers: An Introduction, 2-27
The Unix Market—Unix and the Swarm Toward Openness, 1-9
Unix Security, 3-21
UNIX Workstations Arrive!, 8-6
Usability Lags Make a Difference, 3-6
User vs. Vendor: Are the Scales Tipping?, 8-26
The User's Directory Of Computer Networks, 12-26
Users Helping Users, 7-6
Using Business Requirements To Guide SAA Implementation, 8-3
Using Departmental Money Machines, 6-14
Using EDI Internally, 8-23
Using an IBM PC As a CPE Reporting Tool, 3-17

A View Of the IRDS Reference Model, 5-13
Virtual Net Battle Yields User Savings, 4-28
V.I.R.U.S Protection: Virtual Information Resources Under Seige, 6-27
Visions Of Grandeur?, 4-2
The Vital Importance of Testing Your Contingency Plan—Hello...Hello...Is Anybody There?, 6-3
Voice In Computing: An Overview Of Available Technologies, 11-28
Vulnerability Awareness Improves Contingency Planning, 8-14

Water Versus Halon 1301: Current Fire Protection Alternatives For Computer Rooms, 7-8
What Do End Users Need To Know About Unix?, 11-24
What Next? Build-Outs Instead of Print-Outs?, 3-23
What the Real World Is Saying About CASE, 2-10, 4-21
What To Do Until the Network Consultant Arrives, 1-25
What You Need To Know About SQL, 2-18
What's All This Noise About AD/Cycle?, 9-11
What's Cookin' In Campbell's CIM Lab, 11-25
What's In a Name?, 5-14
What's Wrong With CASE Tools, 8-1
What's Wrong With Network Licensing, 12-13
What's Your Strategy For Buying PCs?, 9-21
When (and How) To Replace a System, 3-9
When To Consider the "O" Word, 8-12
Which Is Better—Reviews Or Testing?, 10-12
Which Network Operating System Is Right For You?, 9-16
Whither the Twain Shall Meet?, 11-10
Who Does What Is a Tricky Multiple Choice, 5-17
Who's Catching HP's New Wave?, 10-16
Why Choose CASE?, 4-21
Why Expert Systems Fail, 1-27
Why 4GLs Cannot Kill Cobol, 2-11
Why Groupware Applications Fail: Problems In Design and Evaluation, 1-6
Why IS Execs Feel Left Out Of Big Decisions, 8-8
Why IS Must Be a Partner In CIM, 11-5
Why IS Should Matter To CEOs, 11-1
Why Local Area Networks Fail, 11-20
Why SAA Will Play On Local Area Networks, 8-20
Will Viruses Vanish?, 1-17
Windows 3.0: The Corporate Standard, 12-20
The Winning Software Development Manager, 8-5
The Winning Software Development Manager (Part II), 9-11
Wireless PC Networks Get a Jolt From NCR, 11-21
Write Your Tests As You Write Your Program, 11-17
Writing Better Computer User Documentation From Paper To Online, 3-25
Xerox v. Apple: The Other Shoe Drops, 4-8

AUTHOR

Allinger, Doug, 2-6
Alschuler, Liora, 1-21
Altieri, Raymond P., 4-27
Altman, Ross, 6-12
Amlani, Mukesh L., 2-26
Anis, Nick, 9-26
Anthes, Gary H., 7-17
Armbrüster, Heinrich, 2-25
Armstrong, Jack, 9-12
Arnum, Eric, 8-22
Arons, B., 1-19
Ashman, Charles, 10-25
Atre, Shaku, 11-13
Austin, Richard O., 10-22

Bahill, A. Terry, 5-30
Bailey, David, 8-25, 11-29
Bailey, James M., 6-19
Balma, Philip, 4-33
Balsly, Chuck, 6-10, 17; 9-13
Banat, Krima, 11-30
Barrow, Craig, 5-15
Barsanti, Joanne B., 3-23
Barthel, Ronald C., 4-13
Beale, Ian, 7-8
Beath, Cynthia Mathis, 8-9
Beckley, Glen B., 10-3
Benedetti, Jef, 11-27
Benson, Doug, 5-9
Berk, Emily, 2-8
Berlinger, Scott, 12-6
Bernstein, Barbara, 8-20
Best, Laurence J., 6-11
Betteridge, Roger, 11-8
Binder, Robert V., 9-11
Blackman, Michael J., 4-34
Blair, Donald, 10-5
Blakeslee, Carol A., 4-10
Blyth, David, 12-9
Boddie, John, 7-4
Bohnert, Peter, 5-14
Boldyreff, Cornelia, 12-9
Boone, Mary, 9-2
Boothman, Terry, 6-16
Boucher, Cynthia, 8-23
Boult, Raymond, 1-26
Bower, Robert Jr., 10-21
Boyd, Susan M., 8-10
Braverman, Barbara, 7-6
Brill, Kenneth G., 7-2
Brockman, R. John, 3-25
Brodsky, Ira, 8-16
Brown, Donald E., 4-35
Brownstein, Irv, 5-15, 12-1
Bruce, David G., 6-21
Brunhoff, Todd, 1-20
Buchanan, Roger, 4-17
Bush, Eric, 12-5
Butler, Janet, 5-1, 9-6

Carando, Patricia, 2-22
Carlin, Anna, 5-22
Carlisle, Bill, 3-15
Carlson, Eileen, 9-19
Carlyle, Ralph, 3-4, 9-22
Carmel, Erran, 3-22
Carver, Thomas, 5-24
Caswell, Stephen A., 7-21, 8-21
Cheeseman, Ian, 7-8
Chen, Christopher D., 11-30
Cheung, Michael C., 10-19
Chignell, Mark, 4-4
Chisholm, John, 12-18
Christoff, Kurt A., 7-6, 11-6
Cohen, Yeshayahu, 3-22
Cole, Allison, 7-17
Cole, Robert, 8-16
Constantine, Larry, 8-1
Cornell, Charles A., 9-12
Couger, Prof. J. Daniel, 1-3, 4-21
Courtin, Patrick, 4-29
Cox, H. Keith, 9-5
Crandall, Dr. Vern J., 10-21
Cross, Gil, 11-27
Crowell, David A., 11-21, 23
Crozier, M., 3-2
Cunningham, Desmond, 10-25
Curtice, Robert M., 10-17

Dale, Richard, 7-15
Damman, Gregory C., 4-7
Dashefsky, Steve, 9-13
David, Alun, 2-3
Davidson, Clive, 12-14
Davis, Arthur G., 5-2
Davis, J.S., 3-8
Davis, Leila, 7-20, 8-22, 9-16, 10-23
Davis Richard K., 2-10, 4-21
Dawson, Frank, 5-12
De Silets, Roland B. Jr., 4-8
Dearnley, P.A., 8-3
Devlin, Edward S., 3-19
Devlin, Joe, 2-8
Dormer, Stan, 6-1
Dowell, Karen, 6-14
Dowgiallo, Ed, 1-7
Duhl, Ben, 1-7
Duncan, Mark, 2-17
Duncan, Ralph, 4-31
Durrell, William R., 6-23
Dvorak, John, 9-26

Eatman, John L., 8-8
Edelstein, Herb, 4-13, 6-8
Edwards, H.M., 2-3
Edwards, Joe B., 9-9
Edwards, Morris, 3-9
Einhorn, David A., 10-25
Eisenberg, Ted, 3-24
El-Imam, Yousif A., 11-30
Emerson, Cole, 1-13
English, Larry P., 2-1
Evans, Paul, 8-15

Fallis, Myra D., 8-7
Farkas, Daniel, 2-27

Farley, Dennis, 3-2, 9-5
Feldstein, Harvey, 6-16
Feng, Wu-chun, 2-26
Fernandez, Rodney, 2-26
Fiderio, Janet, 5-6
Finkelstein, Richard, 1-8
Fishback, Dennis, 6-13
Fisher, David, 11-8
Fitzgerald, Brian, 4-33
Fitzgerald, Michael, 11-26
Fleck, Robert A. Jr., 4-16
Fletcher, Dennis, 12-7
Florence, Donne, 12-26
Fong, Elizabeth N., 6-6
Forte, Gene, 1-10, 4-20, 8-2
Foss, W. Burry, 4-15
Fox, Mark S., 5-29
Foy, Patricia, 7-5
Francett, Barbara, 12-21
Franch, Jim, 1-12, 8-5, 9-11
Frankel, Karen A., 9-4
Freund, Mark, 1-25, 5-27
Friedman, Ken, 12-25
Friend, David, 5-4
Fritz, Jeffrey N., 10-23
Fuller, David, 6-22, 7-20

Gaines, Prof. Michael, 10-3
Gallagher, J. Terrence, 3-7
Gallagher, William, 10-20
Gallant, Walter, 6-27
Garfunkel, Jerome, 10-15
Garrett, Linda, 4-15
Garvey, M.A., 4-16
Gaudette, Edward, 3-17
Gauthier, Michael R., 4-27
Gerard, Toni, 3-19
Gersho, Marvin, 9-25
Gettings, Marty, 5-3
Glass, D., 3-2
Glass, Robert L., 4-14, 5-9, 7-16, 9-7, 10-12, 11-7
Gliss, Hans, 4-5
Glushko, Robert J., 4-2
Goldis, Peter D., 1-15
Goodman, Joel, 12-12
Goodman, Paul, 11-8
Graf, Daryl H., 12-24
Graham, G.F., 6-19
Gross, Daniel, 1-9
Grudin, Jonathan, 1-6
Gruenfeld, Lee, 10-6
Guengerich, Steven, 1-3, 4
Grupe, Fritz H., 12-3

Hall, Anthony, 12-9
Hall, Raymond T., 11-3
Hamilton, Dennis, 2-15, 4-29, 6-10
Hammer, Michael, 10-17
Hammersmith, Alan G., 11-3
Hannotte, Dean, 4-11
Hapgood, William, 6-26
Harrison, Ken, 10-21
Hartwig, Carol, 7-6
Harward, V. Judson, 4-3
Hayes, Linda, 9-7
Hayley, Kathryn J., 8-2
Hedin, Anne, 4-10
Held, Gilbert, 3-26
Heldenbrand, Dave, 7-20
Hershey, Gerald L., 8-8
Herskowitz, Gerald J., 5-28
Hertzoff, Ira, 2-5, 3-10, 5-26, 6-19
Herweg, Ralf, 4-5
Hiebert, Lindsay D., 3-8
Highland, Dr. Harold Joseph, 3-21; 7-10, 11
Hodges, Matthew E., 4-3
Holland, James B., 8-7
Hooey, Bruce, 2-16
Hopper, Max D., 9-22
Horch, John W., 10-13
Hoyle, Chris, 7-24
Hoyt, John E., 4-23
Hughes, J.G., 3-2
Hume, Andrew, 7-16
Humphrey, Watts S., 5-20, 11-8
Hunter, Richard, 4-21
Hurst, Patricia W., 2-9

Igel, Alex, 11-26
Ince, D.C., 5-9
Inglesby, Tom, 11-25
Inmon, William H., 6-7, 11-10
Irgon, Adam, 9-25
Istvan, Rudyard L., 4-22

Jackson, M.S., 4-16, 8-4
Janossy, James G., 3-24
Jeffery, Brian, 3-4
Jesitus, John, 8-21
Johnston, W., 3-2
Jones, Pam, 12-18
Jones, T. Capers, 4-21
Joseph, Gilbert W., 6-5

Kador, John, 2-16, 3-7, 7-13, 10-21, 11-4
Kaebnick, Gregory E., 6-24
Kammam, Alan, 1-26
Kane, Pamela, 6-27
Kang, Yue, 5-30
Kapilow, Sharon A., 3-21
Karten, Naomi, 9-3
Kasturi, Rangachar, 2-26
Katz, Ronald S., 12-23
Kaye, Thomas S., 7-3
Kelly, Joseph, 11-2
Kennedy, Andrew J., 3-10
Kerr, Susan, 4-28, 11-20
Keyes, Jessica, 1-27
Khoshafian, Setrag, 4-4, 8-4, 9-10
Kim, Won, 4-16
King, Julia, 1-1
Kirk, David, 2-11, 7-14, 12-12
Kiviat, Philip J., 6-18
Klein, Theodore P., 8-13
Klopp, Charlotte, 8-14
Knudsen, Paul T., 9-1
Knutson, Jef, 2-4; 5-7, 8; 11-14, 17
Kocher, Bryan, 5-19
Kornel, Amiel, 8-26
Kolodziej, Stan, 12-11
Korson, Tim, 11-13
Kostic, Mark P., 6-26
Krepchin, Ira P., 12-22
Krull, Alan R., 1-12
Kuehn, Ralph R., 4-16

Lacy, Peter, 5-7
Ladd, Scott Robert, 5-12
Landis, Ken, 4-12
LaQuey, Tracy L., Ed., 12-26
Larson, James A., 6-7
Lathrop, Bruce, 12-24
Lederer, Albert L., 3-18
Lee, Donald R., 7-9
Leeds, Frank, 12-16
Leibowitz, Michael R., 8-6
Lenzi, Marie A., 11-4
Lindeman, Robert G., 4-13
Linden, Susan, 4-33, 9-20
Loper, Michael L., 6-7
Lucas, Amy, Ed., 7-25
Lyman, H. Thaine, 8-2

MacKinnon, Douglas R., 3-18, 4-24
MacMicking, James A., 3-19
Madsen, Wayne, 7-7
Major, Michael J., 9-23
Mann, Douglas D., 5-13, 6-8
Mann, J. Fraser, 9-1
Manning, Dr. R.L., 10-11
Marcella, Albert, Jr., 1-18
Maren, A.E., 2-24
Margolis, Nell, 12-2
Marks, Howard, 3-11, 9-18
Marks, William W., 2-18
Marshall, George R., 12-25
Marshall, Larry, 2-12
Martin, James, 6-9
Martin, Janette, 9-21
Mason, Janet, 4-7
Massey, G. Tate, 8-3
Mayhew, P.J., 8-3
McBroom, Viki, 1-17
McCabe, Thomas J., 12-5
McChesney, I., 3-2
McClure, Dr. Carma, 11-12
McDonagh, Tucker, 1-25
McDonald, Hal, 6-22
McEvoy, Ron, 10-5
McGregor, John D., 11-13
McHenry, William K., 3-22
McMullen, John, 4-12; 10-16, 24; 12-13, 19
McNaught, Jay, 1-2
McRoberts, John E., 6-7
McSpadden, William, 7-19
McVinney, Chuck, 12-13
Meador, Jo Guasasco, 6-7
Mendelow, Aubrey, 3-18
Menkus, Belden, 1-14, 2-19, 7-11, 8-13
Mercer, Lindsay C.J., 5-21, 8-17
Merino, Donald N., 5-28
Meyer, Dean, 9-2
Milenkovic, Milan, 7-22
Miller, Frederick W., 12-17
Miller, Howard W., 10-2, 12-10
Moad, Jeff, 2-2, 10-9, 11-19, 12-20
Moeller, Robert, 7-26
Montagna, Kenneth E., 9-9
Moriarty, Terry, 5-10
Mouradian, William H., 10-26
Moynihan, Tim, 11-24
Munshi, Renee, 12-23
Murray, Karen J., 9-25
Murray, William H., 8-19
Musolf, John V., 10-18

Nakagawa, Ron, 12-15
Nashleanas, Rick, 12-8
Nasser, Kate, 2-14
Nelson, Victor P., 10-13
Nicholson, Dave, 2-19
Niedzielski, Vince, 5-15
Nielsen, Fran, 5-12
Nonnenberg, Lane, 12-11
Nurmia, Juhani, 7-13

Odell, James J., 7-13
O'Leary, Daniel E., 10-19
O'Malley, Michael H., 11-28
Oltman, John R., 7-1
O'Shea, Kevin, 7-18
Osterfelt, Susan, 3-6

Palmer, Claire, 7-8
Palmer, Ian, 10-15
Papermaster, Steve, 1-3
Parker, Claire M., 11-5
Parker, John, 3-12
Parnass, Alan, 8-4
Parrott, Michael, 5-9, 9-14
Parsaye, Kamran, 4-4, 9-10
Parsons, James C., 3-1
Partridge, C., 5-28
Pastore, Richard, 8-12
Pavlidis, Theo, 6-23
Payne, Robert, 6-20
Peacocke, Richard D., 12-24
Perry, William E., 1-18, 6-5
Peterson, Gerald E., Ed., 7-26
Phillips, Judith E., 9-11
Pike, S. William, 9-3
Pinckney, Michael D., 6-9
Pinella, Paul, 9-12
Plouffe, Robert L., 10-2
Potter, Pam, 3-6
Power, Andrew C., 11-1
Powers, William J., 5-24
Prabandham, Mohan, 5-13, 6-8
Prager, Ken, 8-9
Price, J., 7-4

Quenet, Judy, 8-10

Radding, Alan, 2-5, 3-16, 10-14, 12-2
Radding, Paul, 11-18
Rainey, Joanne Fletcher, 5-5
Reed, Chris, 7-23
Reuber, A. Rebecca, 9-20
Rienzo, Thomas F., 10-9
Roan, Tom, 10-20
Roberts, Mary Lou, 11-10
Roman, B., 6-17
Rose, Charles, 2-7
Rosen, Bruce, 6-6
Rosenthal, Beth Ellyn, 10-18
Rowe, Stanford H. II, 6-27
Ruggles, Clive, 12-9
Ruhl, Janet, 5-16
Russell, Allan, 3-17
Rybeck, Ted, 5-11

Sale, A.H.J., 7-22
Salenieks, Peter, 6-28
Salin, Tim, 5-14
Sanders, Bruce D., 6-15
Sasnett, Russell M., 4-3
Schiller, Lori, 10-16
Schmandt, C., 1-19
Schussel, George, 11-11
Scott, Michael D., 7-23
Scott, Tony, 3-2, 9-5
Selfridge, William J., 5-13, 6-8
Serlin, Omri, 9-8
Sharon, David, 11-18
Sherif, M.A., 3-26
Shewan, Adrian, 8-8
Showalter, Edward L., 10-13
Shroff, Vijay C., 5-28
Shum, Annie W., 12-10
Sifonis, John G., 4-27
Sikaczowski, Roman O., 4-6
Simpson, Jack W., 10-1
Sivula, Chris, 3-11, 12, 14; 8-5; 11-25
Skiena, Steven S., 2-23
Skorupa, Joseph S., 5-27
Slaughter, Gary, 5-5
Smedinghoff, Thomas, 6-25
Smith, Linda M., 1-9
Smith, P., 2-3
Smith, William G., 4-25, 8-11
Snell, Ned, 2-18, 3-13, 5-26, 6-14
Snyder, Christy, 5-18, 12-10
Sokol, Marc, 2-11
Southard, C. Dennis IV, 2-21
Southcott, John, 2-16
Stallings, William, 4-30, 7-27
Stamps, Davis, 9-14, 15
Staples, Geoffrey, 4-18, 8-3, 10-17
Stegar, Martha Ann, 2-24
Sterlicchi, John, 6-4
Stevens, Larry, 5-17
Stokes, Steward L. Jr., 8-11
Strehlo, C., 1-24
Strathmeyer, Carl R., 11-28
Suh, Robert B., 10-4
Swanson, E. Burton, 8-9
Swartz, Jerome, 6-23

Tannenbaum, Adrienne, 8-24
Targowski, Prof. Andrew S., 10-9
Taylor, Richard P., 5-3
Tayntor, Christine B., 3-9, 6-16
Tetteh-Lartey, Nik, 12-9
Thawley, Charles A., 6-26
Thomas, James L., 11-20
Thompson, Donna M., 8-25, 11-29
Thompson, J.B., 2-3
Tibbetts, John, 8-20
Tillman, Matthew A., 5-25
Tincher, Michael G., 1-23
Tinsley, Tom, 11-1
Tippett, Peter S., 7-7
Toigo, Jon William, 8-17
Topper, Andrew, 6-18
Trautman, Peggy, 10-26
Trucotte, Edward L., 9-24
Tyson, Esther, 6-25

Ulrich, William M., 12-5

Vallabhaneni, S. Rao, 7-10
Varano, Brian K., 5-5
VerDuin, William H., 6-11
Vidrine, J.P., 10-15
Vogel, Ethan, 11-17

Waldoch, Tom, 5-6
Wallace, Robert, 2-13
Wallace, Scott, 12-16
Walsh, Thomas, 9-2
Wang, Ynjium P., 6-23
Weeks, Jessie M., 4-32
Weinland, C. Scott, 3-4
Weixel, Suzanne, 6-22, 8-19
Wendover, Bob, 4-24
Weston, F.C. (Ted) Jr., 11-5
Wetherbe, Dr. James C., 7-3
Whaley, Richard L., 6-3
Wilder, Clinton, 12-2
Williams, Daniel, 8-25
Williams, Dwight, 1-4
Wilson, D.N., 1-11
Wilson, Geoffrey A., 3-21
Winer, Charles R., 1-2
Woda, Alex, 11-22
Wolman, Rebekah, 5-17, 11-24
Wong, Harry, 4-4, 9-10
Wong, Dr. Ken, 1-17
Wood, Charles Cresson, 5-19
Wood, Lamont, 3-23
Woodard, William A., 9-22
Wright, Benjamin, 2-20, 5-23, 7-25
Wright, Karen, 4-1

Yalonis, Chris, 3-5
Yeh, Dr. Raymond T., 7-12
Yellin, Robert, 5-18
Yen, David (Chi-Chung), 3-10, 5-25
Yen, Elizabeth, 5-18
Yourdon, Ed, 3-3; 4-9, 18; 5-31; 12-20

Zammit, Joseph P., 8-27
Zolnowski, Jean, 9-25
Zvegintzov, Nicholas, 11-15, 16

SUBJECT

access control devices, 12-17
AD/Cycle, 4-18, 9-11, 11-11
Advanced Interactive Executive (AIX), 6-17
Aequitas skill assessor, 11-24
AI (artificial intelligence), 5-29
AI tools, 8-24
AIDS software arrest, 6-4
AIDS software deception, 4-5
AIDS Trojan Horse, 3-21
Air Canada knowledge-based scheduling, 4-13
anti-virus protection, 9-17
antitrust case, 12-23
application definition, 11-7
application development, 1-6
application development guidelines, 1-3
Application Development Workbench (ADW), 12-20
architectures, 7-18
ARCnet, 3-11
artificial intelligence (AI), 2-22, 6-26, 11-27
AS/400, 9-13
AS/400 in banking, 4-12
AS/400-LAN partnership, 7-4
asynchronous communication servers, 3-11
AT&T UNMA, 3-9
attribute naming, 5-14
audit and security resources, 7-9
audit of applications software, 7-10
audit software problems, 1-18
auditing CASE systems, 8-18
auditing concerns of EDI, 5-22
auditing EDP, 6-5
auditing for computer crime prevention, 8-19
auditing for fraud detection, 5-21
auditing spreadsheet design, 1-18
auditor-system design control, 8-13
auditor virus recovery plan, 6-5
automated computer control, 12-10
automated job scheduling, 10-21
automated manufacturing/distribution, 5-6
automated operations, 5-15
automated requirements tools, 3-8

backup & restore, 7-16
banking AS/400 applications, 4-12
banking systems, 10-18, 20
bar codes, 6-23, 11-24
BASISplus, 1-22
biometrics, 12-17
biometrics security devices, 8-17
broadband ISDN, 2-25
business automation, 10-17

cable facilities, 11-26
CAD-to-model, 3-23

CallPath Services Architecture (CSA), 10-16
Campbell Soup CIM system, 11-25
capacity management, 5-18, 6-13, 10-21
capacity planning, 2-3, 9-9, 10-22, 12-10
career growth, 6-16
career paths, 4-24
CASE, 1-10, 4-34, 7-12, 8-2, 10-15
CASE advantages, 7-16
CASE benefits, 4-21
CASE from DEC, 4-18
CASE implementation, 2-9, 6-18
CASE implementation survey, 2-10
CASE in prototyping, 8-3
CASE redevelopment tools, 12-6
CASE repository, 4-20
CASE standards, 4-21, 11-18
CASE success guidelines, 1-11
CASE technology, 1-12
CASE tools, 8-1, 12-20
CASE tools critique, 3-2
CASE user survey, 4-21
centralized corporate datacenter, 4-24
centralized operation automation, 2-12
CEO-IS project management, 10-3
CEO leadership, 11-1
change control management software, 6-10
chief information officer (CIO), 4-22, 27
CICS/ESA Version 3 retraining, 12-12
CIM, 7-19
CIM/IS partnership, 11-5
CIM lab at Campbell, 11-25
CIO changeover tactics, 12-3
client-server computing, 2-7
COBOL, 2-11, 9-5
COBOL with object orientation, 10-15
Cobol vs 4GLs, 2-11
collaborative team projects, 8-11
combinatorics, 3-8
communications, 4-1
communications security, 7-11
Compaq Systempro, 4-32
competitive information systems, 9-22
computer-aided manufacturing quality, 5-3
computer-aided software engineering (CASE), 1-10, 4-34, 7-12, 8-2, 10-15
computer applications in the UK, 6-28
computer auditing and security, 7-26
computer bottlenecks, 5-18
computer crime, 5-19, 6-4, 11-30
Computer Integrated Manufacturing (CIM), 7-19, 11-25
computer law, 2-20, 6-25
computer litigation, 8-27
computer network directories, 12-26
computer-related crime, 8-19
computer resources conservation, 6-13
computer security, 6-1
computer skills, 11-24
computer user documentation, 3-25
computer virus recovery, 1-17
computer viruses, 1-17; 3-21, 22; 4-8; 6-27
computer viruses guide, 6-5
computer worm report, 3-24
computing services, 4-1
console automation, 12-10
contingency planning, 3-19, 6-3, 8-14
contingency planning and recovery function, 6-3
contract litigation, 8-27
contract negotiations, 10-6
contract programming quality, 12-8
contract quality, 7-3
conversion without disruption, 6-11
cooperative processing, 6-8, 12
coordinating work, 8-25
coordination technologies, 8-25
copyright for software, 10-25
copyright of display screens, 4-7
corporate acquisitions and buyouts, 7-3
corporate data, 11-6
corporate data management, 3-18
corporate data processing resources, 4-24
corporate information systems, 11-1
corporate planning, 5-3
corporate software policy, 9-1
cost-analysis/cutting, 9-22
cost/benefit analysis, 7-4
creativity in system design, 1-3
creativity in training, 12-13
crimoids, 1-17
customer information files (CIF), 10-18

data architecture, 6-7
data base environments, 6-7
data base user aids, 3-6
data capture, 11-6
data center restructuring, 9-2
data communications, 1-8
data dictionary, 6-7
Data Flow Diagrams (DFDs), 4-16
data management, 5-14
data modeling, 11-10
data modeling for strategic decisions, 9-20
data resource management, 11-5
data security, 9-17
data security on public networks, 8-16
data storage, 1-7, 10-14
data transmission vulnerability, 7-11
database contracts, 7-24
database management, 1-7, 6-8
database management products, 8-7
database management systems, 9-10
database migration, 7-15
database servers, 1-7
database structures, 9-9
database systems, 3-26
database technology, 4-16
databases, 8-4, 9-10
databases in factories, 9-23
databases (intelligent), 4-4
datacenter automation, 5-15
datacenter management, 3-18
DBMS/CASE, 10-15
DBMS/RDBMS, 5-11
DB2 conversion, 4-17
DB2-IMS, 8-10
DB2 performance management, 8-7
DEC CASE, 4-18
DEC EMA, 3-9
decentralized AS/400, 9-20
decision support systems, 2-16
denormalization, 9-9
Design Composer, 3-2
design for manufacturability, 6-22
design induced errors, 12-24
designware, 3-7
desktop electronic publishing (DEP), 12-25
desktop manufacturing, 3-23
diagnosis and control, 6-11
dictionary technology, 6-7
digital printing, 6-24
Direct Access Storage Device (DADS), 1-7
disaster insurance, 7-8
disaster plan testing, 6-3
disaster planning, 3-19, 7-8
disaster recovery planning, 3-19
disaster site services, 8-14
display screens copyright, 4-7
distributed application design, 1-4
distributed computing, 3-12
distributed data systems, 8-12
distributed DBMSs, 6-7
distributed environment, 6-6
distributed systems, 2-14, 3-7, 11-25
distributed automation, 12-22
document interchange, 5-12
documentation, 11-10
documentation for computer user, 3-25
DOS extenders, 12-19
DOS for small networks, 10-24
downsizing, 2-14; 8-12, 13
downsizing case study, 9-20
dual career paths, 4-24

EDI, 3-15; 6-20; 7-20, 25
EDI contracts and liability, 7-23
EDI control and audit, 5-24
EDI Directory, 2-9, 12-16
EDI implementation, 11-22
EDI implementation steps, 6-22
EDI internally, 8-23
EDI legal issues, 5-23
EDP auditing, 6-5
efficiency consultants, 9-22
EIS, 7-6
electrical power outage, 10-23
electronic bulletin boards, 9-26
electronic data interchange, 2-9; 3-15; 4-29; 5-22; 6-20, 21, 23; 7-20, 25; 12-16
electronic imaging, 6-25
electronic storage technology, 4-33
employee re-training, 9-22
employee security responsiblity, 1-14
empowerment, 10-4
end-user computing, 2-17
end-user management manual, 9-26
end-user support, 7-6
enterprise networks, 10-25
Enterprise-wide Information Management (EwIM) Architecture, 10-9
error detection, 5-30
Ethernet, 8-22, 10-23, 11-21
European communications, 1-26
European Community standards activity, 9-4
excellence vs. problem-solving, 10-2
executive information systems (EIS), 2-16; 4-27; 5-4, 15; 7-5, 6; 9-19
expert systems, 1-27; 4-34, 35; 5-29, 30; 6-26; 9-25
expert systems security, 10-19
expert systems success factors, 3-23
extended data model, 8-4

facilities reliability, 7-2
facility service-level agreement, 7-2
factory databases, 9-23
fault tolerance, 10-13
fault tolerance on LANs, 11-20
fax gateways, 3-14
fax machines, 6-19
FDDI, 5-28, 7-21, 8-21, 10-23
fiber distributed data interface (FDDI), 5-28, 7-21, 8-21, 10-23
FDDI (Fiber Distributed Data Interface) standard, 7-21, 8-21
fibre optics, 5-28
file backup, 7-16
financial modeling, 4-13
financial software, 7-5
fine tuning LANs, 5-27
fire protection systems, 7-8
fire safety training, 2-19
"fitness-for-use," 5-5
formal methods, 12-9
4GL advantages, 7-16

4GLs, 3-1, 10-4
fourth generation language, 3-1, 10-4
fractional T1, 3-14
fraud detection, 5-21, 8-17
function points, 1-9, 11-8

gate reviews, 4-15
geographic information systems, 2-26
graphics/video workstations, 1-20
groupware applications, 1-6

help desk skills, 9-3
Hewlett-Packard vs HyPoint, 12-23
hiring programmers, 5-16
human factors design, 12-24
hyperbases, 3-22
hypermedia, 1-21; 4-2, 3
hypertext, 1-21, 2-22
hypertext design, 3-22

IBM-AD/Cycle, 3-3
IBM Advanced Interactive Executive (AIX), 3-4
IBM/MVS Repository, 3-4
IBM NetView, 3-9
IBM Presentation Manager (PM), 4-11
IBM product consolidation, 12-18
IBM RISC System/6000, 6-26
IBM Systems Application Architecture, 6-9
IBM's "total solution," 9-14
image technology, 9-14
imaging systems integration, 9-14
IMS with DB2, 8-10
independent service organizations, 12-23
information asset protection, 1-14
information asset value, 6-23
information-based organizations, 10-17
information center off-loading, 3-17
information management, 4-2, 25
information power, 10-1
information processing, 2-25
information resource dictionary system (IRDS), 6-8
Information Resource Management (IRM), 4-25, 8-11
information resources dictionary system (IRDS), 5-13
information retrieval, 1-21, 22
information systems, 9-22
information systems architecture, 11-5
information systems in banking, 10-20
information systems and services encyclopedia, 7-25
information technology, 4-27
input/output efficiency, 12-10
integrated manufacturing systems, 5-6
Integrated Services Digital Network (ISDN), 2-5; 3-10, 12; 7-27
integrated systems, 1-25
integration, 6-7
intelligent databases, 4-4
intelligent switches, 2-6
internal EDI, 8-23
international software marketing, 7-23
international standards in European Community, 9-4
interoperability, 9-15
IS/business plan coordination, 3-18
IS-CIO status, 8-8
IS cost/benefit analysis, 9-2
IS employee motivation, 4-21
IS mentor, 2-14
IS partnership with CIM, 11-5
IS performance evaluation, 11-3
IS planning, 5-15

ISDN, 2-5; 3-10, 12; 7-27
ISDN link 2B1Q, 4-28
ISDN substitute for LAN, 10-23
ISPF Dialog Manager, 3-24

JES2 vs. PSF, 10-22
JIT (Just-In-Time), 1-23, 5-5, 10-18
job scheduling, 10-21
just-in-time (JIT), 1-23, 5-5, 10-18

knowledge-based scheduling, 4-13
KnowledgeWare ADW, 12-20

LAN connections, 8-22
LAN downtime, 11-20
LAN fault tolerance, 11-20
LAN/ISDN gateway, 10-23
LAN management, 2-8
LAN manager, 1-25, 9-16
LAN market, 2-7
LAN operating systems, 1-25
LAN planning, 3-13
LAN plus AS/400, 7-4
LAN software licensing, 12-13
LAN technology, 8-22
LANs, 1-24; 2-6; 3-11; 5-26, 27, 28; 6-19; 9-18; 11-21; 12-26
law suits, 8-26
leadership training, 5-5
learning theory, 11-27
leasing advantages, 6-14
legal action on viruses, 1-17
legal contracts for database access, 7-24
legal issues of EDI, 5-23
legal problems in software marketing, 7-23
liability, 6-25
licensing LAN systems, 12-13
lines of code, 11-8
local area networks (LANs), 1-24; 2-6; 3-12; 5-26, 27, 28; 6-19; 9-18; 11-21; 12-26
"look and feel" lawsuit, 4-8
low-end LANs, 2-6

Mach operating system, 7-17
MAGEC prototyping system, 7-13
mainframe computer applications, 8-4
mainframe/LAN systems, 3-13
mainframe packaged software, 10-5
mainframe tape handling, 10-21
maintenance, 8-9; 9-5, 6; 12-6
maintenance software, 11-15
maintenance testing, 9-7
malpractice, 6-25
MAN (Metropolitan Area Network), 8-22
management computer training, 9-3
management statistics tools, 2-15
managing software development, 8-5, 9-11
manufacturing automation, 1-23, 6-22, 11-25
manufacturing databases, 9-23
manufacturing design, 8-26
manufacturing software, 9-25
manufacturing systems, 5-5
MAP market, 2-19
maps, 2-26
market information systems, 4-27
market research applications, 12-22
mathematics software, 2-23
medical applications, 10-26
medical supply system, 12-23
memory management units, 7-22
mentoring, 2-14
meta data, 11-6
metrics, 11-8
metrics providers, 9-22
micro-to-mainframe connectivity, 1-8

micrographics, 6-24
Microsoft's Windows 3.0, 12-20
mid-range systems, 6-14
migrating to open systems, 10-11
minicomputer types, 12-2
modeling, 4-13
motivating analysts and programmers, 4-21
MS/DOS Windows vs OS/2 Presentation Manager, 4-12
multimedia, 4-3
Multiple Virtual Storage (MVS), 7-14

NetWare, 1-25
NetWare 386, 9-16
neural network applications, 11-29
NewWave, 10-16
network contractor, 6-19
network fiber optic standard (FDDI), 7-21, 8-21
network integration, 1-25
network management, 2-8, 4-29, 7-20
network management standards, 3-9
network operating systems (NOS), 1-25, 5-26, 9-16
network planning, 8-19, 12-14
network platforms, 5-27
network security, 7-20, 12-15
network security techniques, 4-30
network software, 8-21
network software licensing, 12-13
network standards, 12-16
network testing, 9-16
network troubleshooting, 12-16
networks, 4-28; 5-28; 6-19; 10-23, 24, 25
neural network applications, 8-25
neural networks, 2-24, 6-11
neural networks bibliography, 2-24
normalization, 9-9

object orientation, 2-1
object-oriented COBOL, 4-9, 10-15
object-oriented computing, 7-26
object-oriented databases (OOD), 4-16, 8-4
object-oriented DBMS and RDBMS, 5-11
object-oriented design, 3-7, 11-13
object-oriented development, 5-12
object oriented programming (OOP), 2-1, 7-13, 11-13
object oriented programming systems (OOPS), 2-2, 11-4
object-oriented software, 10-16
object-oriented system, 3-2
OC/2 software, 3-5
off-loading, 3-17
office document architecture (ODA), 5-12
OLTP benchmarks, 9-8
OOPS, 2-2, 11-4
open distributed systems security model, 8-16
open network software, 10-25
open systems, 1-9
Open Systems Interconnection (OSI), 5-25, 9-15
open systems migration, 10-11
open systems standards, 8-5
operating system standards, 1-9
operations automation, 2-12
operating systems, 3-4, 4-10, 6-17, 7-18, 9-12
opportunism, 10-2
optical networks, 12-16
optical storage, 4-33
order processing technology, 4-29
OS/400, 12-18
OS/2, 6-17, 9-12
OSF, 1-9
OSI, 9-15

OSI network security guidelines, 4-30
OSI (Open Systems Interconnection) migration, 9-15
OSI standards, 3-10
outsourcing, 3-16, 17; 5-17; 8-12; 10-4, 5; 11-2, 3
outsourcing as strategy, 7-1
outsourcing software fees, 12-2

packaged software, 10-5
Pansophic Resource Management System (PRMS), 9-25
parallel computer architectures, 4-31
parallel development, 5-14
password security, 7-10
passwords, 7-11
patent protection for software, 10-25
PBX-LAN connectivity, 3-12
PC buying strategy, 9-21
PC hidden costs, 7-6
PC network failure, 11-20
PC spreadsheet use, 4-23
peopleware, 10-4
performance evaluation, 3-17
performance management, 12-11
performance measurement, 9-8
performance survey, 5-15
personal computers, 6-10
Pick ACCESS, 6-27
"Pick in UNIX," 6-17
Pick/UNIX, 4-10, 9-12
Presentation Manager (PM), 4-11
privacy, 2-21
problem recording and analysis, 10-13
process management, 5-1
process modeling, 11-10
process models, 11-8
product design improvement, 8-26
productivity, 5-2; 10-17, 18
productivity improvement, 6-13
productivity measurement, 1-9
professional obsolescence, 9-22
program change control, 10-19
program specs, 5-7
programmer hiring, 5-16
programmer productivity, 4-15
programming, 3-1
project management, 5-18, 8-11
project management and reporting, 2-18
PROLOG, 3-8
prototyping, 6-9, 8-3
prototyping on PCs, 7-13
prototyping procedures, 8-3
PSF vs. JES2, 10-22

quality assurance, 4-15; 5-1, 18; 9-24
quality assurance-systems security, 8-13
quality control, 12-8
quality control in manufacturing, 5-3
quality in corporate culture, 5-2
quality software contracts, 7-3
quality software development, 10-13

radio frequency (RF) data collection, 10-24
redevelopment engineering, 12-6
reengineering, 3-9, 10-17, 12-6
reengineering software, 12-5
regression analysis in fraud detection, 8-17
relational data base user aids, 3-6
relational technology, 8-7
remote procedure call (RPC) standards, 3-12
repositories, 3-4; 5-10, 14; 11-12
requirements documentation, 3-8
resource management, 9-25
retraining, 10-9
retraining for CICS/ESA Version 3, 12-12
reusable software, 3-2
reverse engineering, 9-6, 12-5
RISC (Reduced Instruction Set Computer), 7-22
RM/T semantic modeling, 8-4
RPC standards, 3-12
RPG/400 programmer shortage, 1-2
RS/6000, 9-13

SAA, 3-4; 6-9, 10; 8-3, 20; 9-14
SAA & AIX, 4-10
SAA & UNIX & AIX, 4-10
SAS System, 9-12
security, 1-13; 3-21; 4-6, 30; 5-19; 7-10, 11
security controls in system design, 5-19
security devices, 8-17, 12-17
security evaluation, 1-15
security for Unix systems, 3-21
security from virus infections, 7-7
security model for open distributed systems, 8-16
security networks, 7-20
security of expert systems, 10-19
security planning and implementation, 6-1
security professional standards, 8-15
security through trust, 1-12
Segment One information strategy, 4-22
semantic data models, 8-4
session manager, 11-23
Shadow, 2-22
skills assessment, 11-24
smart buildings, 11-26
SNA versus OSI, 3-10
software configuration management, 10-13, 11-16
software development, 3-7, 9-11, 12-9
software development management, 8-5, 9-11
software documentation, 4-14
software engineering, 11-7
software fees for outsourcing, 12-2
software for mathematics, 2-23
software glue, 11-15
software improvement, 6-18
software legal protection, 6-25
software maintenance, 11-16, 12-1
software maintenance documentation, 4-14
software management, 5-30
software policy, 9-1
software piracy, 4-7
software problem analysis, 10-13
software production/maintenance, 8-9
Software Productivity Consortium, 3-2, 12-21
software productivity tools, 11-14
software protection, 10-25
software quality assurance, 4-6; 5-7, 9
software quality measurement, 9-7
software reengineering, 12-5
software reuse, 3-2
software review vs. testing, 10-12
software security for networks, 12-15
software services, 9-13
software testing, 5-9, 7-13, 11-17
software testing management, 5-7
software testing "sins," 5-8
software tools catalogs, 11-14
speaker recognition, 12-25
specification compilers, 7-12
speech recognition, 12-25
speech synthesis, 11-30
spreadsheet design review, 1-18
spreadsheet misuse, 4-23
SQL, 2-18
SQL instruction, 4-13
SSADM, 2-3
staff development, 6-16
standards, 9-4
standards for CASE integration, 11-18
standards for computing environments, 7-18
standards for security professionals, 8-15
standards organizations, 11-19
statistical analysis for management, 2-15
storage technologies, 10-14
strategic decision making, 9-20
strategic information systems, 4-22
strategic planning, 2-13; 4-27; 5-3, 18
strategic program maintenance, 9-5
strategic training, 2-17, 12-12
structured cabling, 11-26
Structured Query Language (SQL), 2-18
Structured Systems Analysis and Design Method (SSADM), 2-3
support integration, 12-11
Synchronous Optical Network, 12-16
system implementation project management, 10-3
system development, 1-11
system maintenance, 12-6
system replacement, 3-9
Systems Application Architecture (SAA), 3-4; 4-18; 5-9; 6-17; 8-3, 20; 10-17
systems architecture, 10-9
systems integration, 5-17, 10-2, 12-7
systems integrator selection, 12-7
systems integrators, 1-1
Systems Network Architecture (SNA), 5-25
systems planning, 11-5

tape operations, 10-21
team building, 5-5
technical career compensation, 4-24
technical obsolescence, 9-22
technical personnel management, 5-17
telecommunications, 2-5; 3-10, 14; 4-29; 6-19, 27; 7-20
telecommunications dictionary, 3-26
telecommunications software, 8-21
Terminal Productivity Executive (TPX), 11-23
test libraries, 9-7
testing, 2-4; 5-9, 30
testing in software development, 10-12
testing software, 7-13, 11-17
testing vs. review, 10-12
Texas Instruments symbolic spreadsheets, 4-13
text information management system (TIMS), 1-22
text-to-speech conversion, 11-28
third generation language, 3-1
3-D systems, 3-23
3M's IMS, 5-6
Tiger Team, 1-15
time-based competition (TBC), 4-22
"time box," 6-9
time-sharing computer systems, 3-24
Token Ring, 10-23
token ring nets, 8-22
Total Quality Focus, 9-24
TPC-A, 9-8
traffic technology in Europe, 10-26
training in technology, 2-17
training projections, 12-12
training survey, 6-16
training techniques, 1-2
training through creativity, 12-13
training Unix users, 11-24

Trojan horse, 4-5
Trojan Horse software, 3-21
trusted person system, 1-12
Unified Network Management Architecture (UNMA), 5-26
uniVerse, 9-12
Unix, 1-9, 2-27, 4-10
Unix and AIX, 7-17
UNIX-based systems, 8-5
UNIX/Pick, 6-17
Unix security, 3-21
Unix training, 11-24
UNIX workstations, 8-6
upgrading, 8-8
usability testing laboratory, 3-6
user-managed planning, 2-13
user/MIS-consultants rapport, 8-9
user reports, 2-18
User Resource Network, 7-6
user training, 8-10
users supporting users, 7-6

vendor-customer service, 9-13
vendor liability cases, 8-26
VINES LAN OS, 1-25
virtual datacenter, 4-24
virtual private networks, 4-28
virus prevention, 4-6, 9-17
viruses, 1-17; 3-22; 7-7, 10
viruses in PCs, 7-7
visualization, 1-20
voice applications, 1-19
voice/data integration, 11-28
VS Cobol II, 2-11

WaveLAN, 11-21
Windows 3.0, 9-12, 12-20
wireless LANs, 11-21
World Class manufacturing standards, 1-23
work groups, 6-15
workstations, 6-10
workstations with UNIX, 8-6
Xerox vs. Apple, 4-8

REFERENCES

The staff of Data Processing Digest regularly monitors an average of 150 computer, trade, educational, scientific, and business management periodicals for appropriate articles to digest each month. The list of periodicals varies widely from year to year, and even from month to month, as new periodicals appear, and others cease publication or change their editorial direction. Every June issue and the year-end annual supplement include all the publishers' addresses for your convenience. During other months of the year, only the periodicals referenced in that issue are given. All addresses which do not include a country are in the U.S.

Please request copies of originals from the publisher of the periodical. Do not write to *Data Processing Digest*, as we do not copy or reprint, and your request will be delayed. Books should be ordered from their publishers or from a local technical book store.

Access (no longer published): United Communications Group, 4550 Montgomery Ave., Suite 700N, Bethesda, MD 20814

Advanced Information Report, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford, OX2 7DH, England*

Advanced Manufacturing, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

AI Expert, Miller-Freeman Publications, 500 Howard St., San Francisco, CA 94105

AIX Age, Systems Educational Associates, PO Box 153588, Irving,TX 75015-3588

American Programmer, Children's Publishing Co., 161 W. 86th St., New York, NY 10024-3434

Australian Computer Journal, PO Box 319, Darlinghurst, NSW 2010, Australia

Banking Software Review, International Computer Programs, Inc., 9100 Keystone Crossing, Ste. 200, Indianapolis, IN 46240

Business Software Review, International Computer Programs, Inc., 9100 Keystone Crossing, Ste. 200, Indianapolis, IN 46240

Canadian DataSystems, Maclean-Hunter Ltd., 777 Bay St., Toronto M5W 1A7, Ontario, Canada

Capacity Management Review (formerly EDP Performance Review), Applied Computer Research, PO Box 9280, Phoenix, AZ 85068-9280

CASE Outlook, 11830 SW Kerr Parkway, #315, Lake Oswego, OR 97035

CASE User, 11830 SW Kerr Pkwy. #315, Lake Oswego, OR 97035

Chief Information Officer Journal, Faulkner & Gray, Inc., 106 Fulton St., New York, NY 10038

CIM Review, Auerbach Publishers, One Penn Plaza, New York, NY 10019

CIO: The Magazine for Information Executives, PO Box 9208, Framingham, MA 01701-9208

Communications News, 7500 Old Oak Blvd., Cleveland, OH 44130

Communications of the ACM, 11 W. 42nd St., New York, NY 10036

Computer, IEEE, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720

Computer Audit News and Developments, PO Box 81-151, Wellesley Hills, MA 02181-0001

Computer Communications, Butterworth Press, PO Box 63, Guildford, Surrey GU2 5BH, England

Computer Fraud & Security Bulletin, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Computer Graphics Forum, North Holland Publishing Co., PO Box 1991, 1000 BZ Amsterdam, The Netherlands

Computer Language, Miller Freeman Publications, 500 Howard St., San Francisco, CA 94105

Computer/Law Journal, PO Box 3280, Manhattan Beach, CA 90266

Computer Law Newsletter, Warner & Stackpole, 75 State St., Boston, MA 02109

Computer Security, Auditing, and Controls, Management Advisory Publications, PO Box 151, Wellesley Hills, MA 02181

Computer Security Digest, Computer Protection Systems, 150 North Main St., Plymouth, MA 48170

Computer Security Journal, Computer Security Institute, Miller-Freeman Publishing Co., 500 Howard St., San Francisco, CA 94105

Computer Security Newsletter, Computer Security Institute, Miller-Freeman Publishing Co., 500 Howard St., San Francisco, CA 94105

Computers & Security, Elsevier Advanced Technology, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*

Computers In Accounting, Warren, Gorham & Lamont, Inc., One Penn Plaza, New York, NY 10019

Computers In Industry, North Holland Publishing Co., PO Box 1991, 1000 BZ Amsterdam, The Netherlands

Computerworld, PO Box 9171, Framingham, MA 01701-9171

Concurrency—Practice & Experience, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex, PO19-1UD, England

Contingency Planning & Recovery Journal, PO Box 81151, Wellesley Hills, MA 02181-0001

Data Base Newsletter, 31 State St., Suite 800, Boston, MA 02109

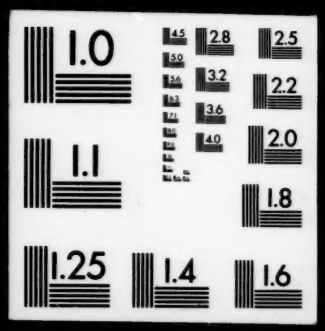
Data Based Advisor, 4010 Morena Blvd., Suite 200, San Diego, CA 92117

Data Entry Awareness Report, Management Information Corp., PO Box 5062, Cherry Hill, NJ 08034-5062

Data Resource Management, Auerbach Publishers, One Penn Plaza, New York, NY 10019

Data Training, Weingarten Publications, 38 Chauncy St., Boston, MA 02111-2369
Database & Network Journal, A.P. Publications Ltd., 351 City Rd., London EC1V 1LR, England
Database Programming & Design, Miller-Freeman Publications, 500 Howard St., San Francisco, CA 94105
Datacenter Manager, International Computer Programs, Inc., 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240
Datamation, 275 Washington St., Newton, MA 02158-1630
DBMS, M & T Publishing, Inc., 501 Galveston Dr., Redwood City, CA 94063
EDGE, International Computer Programs, 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240
The EDP Auditor Journal, EDP Auditors Foundation, PO Box 88180 Carol Stream, IL 60188-0180
EDPACS, Auerbach Publishers, One Penn Plaza, New York, NY 10019
Electronic Banking and Finance, Elsevier Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*
Financial & Accounting Systems (formerly Journal of Accounting & EDP), Auerbach Publishers, One Penn Plaza, New York, NY 10019
Harvard Business Review, Harvard Business School, Boston, MA 02163
I & CS, Chilton Co., Chilton Way, Radnor, PA 19089
IBM Journal of Research & Development, IBM Corporation, Armonk, NY 10504
IBM Systems Journal, IBM Corporation, Armonk, NY 10504
IEEE Computer Graphics & Applications, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720
IEEE Design & Test of Computers, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720
IEEE Expert, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720
IEEE Micro, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720
IEEE Software, 10662 Los Vaqueros Ci., Los Alamitos, CA 90720
Industrial Engineering, 25 Technology Park/Atlanta, Norcross, GA 30092
INFOR: Research & Information, Journal Dept., University of Toronto Press, 5201 Dufferin St., Downsview, Ont. M3H 5T8, Canada
INFORM: The Journal of Information & Image Management, 1100 Wayne Ave., Silver Spring, MD 20910
Information Center, Weingarten Publications, 38 Chauncey St., Boston, MA 02111-2369
Information Executive, Data Processing Management Association, 505 Busse Highway, Park Ridge, IL 60068-3191
Information & Management, Elsevier Science Publishers, PO Box 1991, 1000 BZ, Amsterdam, The Netherlands
Information Retrieval & Library Automation, Lomond Publications, Inc., PO Box 88, Mt. Airy, MD 21771
Information Services & Use, Elsevier Advanced Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England
Information & Software Technology, Butterworth Scientific Ltd., PO Box 63, Guildford, Surrey GU2 5BH, England
Information Strategy: The Executive's Journal, Auerbach Publishers, One Penn Plaza, New York, NY 10019
Insurance Software Review, International Computer Programs, Inc., 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240
InTech, P.O. Box 12277, Research Triangle Park, NC 27709
International Computer Law Adviser, Law & Technology Press, PO Box 3280, Manhattan Beach, CA 90266
I/S Analyzer, United Communications Group, 4550 Montgomery Ave., Suite 700N, Bethesda, MD 20814
Issues In Strategic Systems, Cardware, Inc., 50 Fitch St., New Haven, CT 06515
Journal of Information Systems Management, Auerbach Publishers, One Penn Plaza, New York, NY 10019
Journal of Management Information Systems, M.E. Sharpe Inc., 80 Business Park Dr., Armonk, NY 10504
Journal of Neural Network Computing, Auerbach Publishers, One Penn Plaza, New York, NY 10019
Journal of Network Management, Faulkner & Gray, 106 Fulton St., New York, NY 10038
Journal of Object-Oriented Programming, 310 Madison Ave., Suite 503, New York, NY 10017
Journal of Software Maintenance—Research & Practice, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England
Journal of Software—Practice & Experience, John Wiley & Sons Ltd., Baffins Lane, Chichester, Sussex PO19 1UD, England
Journal of Systems Management, 24587 Bagley Road, Cleveland, OH 44138
LAN Magazine, Miller Freeman Publications, 500 Howard St., San Francisco, CA 94105
LAN Technology, M & T Publishing, 501 Galveston Dr., Redwood City, CA 94063
Management Accounting, 10 Paragon Dr., Montvale, NJ 07645-1760
Manufacturing Systems, Hitchcock Publishing Co., 191 S. Gary Ave., Carol Stream, IL 60188-2292
Modern Materials Handling, Cahners Publishing Co., 275 Washington St., Newton, MA 02157-1630
Modern Office Technology, Penton Publishing Inc., 1100 Superior Ave., Cleveland, OH 44114
National Computer Security Association Newsletter, Suite 309, 4401-A Connecticut Ave., NW, Washington, DC 20015
Network Monitor, Elsevier Science Publishers, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*
The Office, 1600 Summer St., Stamford, CT 06905
Office: Technology and People, Elsevier Advanced Technology Publications, Mayfield House, 256 Banbury Rd., Oxford OX2 7DH, England*
Price Waterhouse Review, 1251 Ave. of the Americas, New York, NY 10020
PRISM, Arthur D. Little, Inc., Acorn Park, Cambridge, MA 02140-2390
Quality Data Processing, 7575 Dr. Phillips Blvd., Suite 350, Orlando, FL 32819
The Quarterly, Software Productivity Consortium, SPC Building, 2214 Rock Hill Rd., Herndon, VA 22070
RDBM Computing, PO Box 9539, Fountain Valley, CA 92728-9539
Realistic Software Services, 350 Grovers Ave., Suite 11D, Bridgeport, CT 06605
Research Horizons, Georgia Institute of Technology, Research Communications Office, 223 Centennial Research Bldg., Atlanta, GA 30332
SAA Age, Systems Educational Associates, PO Box 153588, Irving, TX 75015-3588
SAA Update, Systems Educational Associates, PO Box 153588, Irving, TX 75015-3588
Scientific American, 415 Madison Ave., New York, NY 10017
Security, Cahners Publishing, Cahners Plaza, PO Box 5080, Des Plaines, IL 60018-5080
Sloan Management Review, Sloan School of Management, M.I.T., 1 Amherst St., E40-292, Cambridge, MA 02139
Small Business Computer News, Management Information Corp., PO Box 5062, Cherry Hill NJ 08034-5062
Software Maintenance News, 141 St. Marks Pl. #5F, Staten Island, NY 10301
The Software Practitioner, Computing Trends, PO Box 213, State College, PA 16804
Software Protection, Law & Technology Press, PO Box 3280, Manhattan Beach, CA 90266-3280
Software Quality World, ProQual, Inc., PO Box 337, Medfield, MA 02050-0003
System Builder, International Computer Programs, Inc., 9100 Keystone Crossing, Suite 200, Indianapolis, IN 46240
System Development, Applied Computer Research, PO Box 9280, Phoenix, AZ 85068-9280
Systems/3X & AS World, 950 Lee St., Des Plaines, IL 60016
3X/400 Information Management, Duke Corp., 295 E. 29th St., Loveland, CO 80538
UNIX Review, Miller Freeman Publications, 500 Howard St., San Francisco, CA 94105
Wall Street Journal, 200 Liberty St., New York, NY 10281

*Alternate address: 655 Avenue of the Americas, New York, NY 10010


1.0
1.1
1.25
1.4
1.6
2.8
3.2
3.6
4.0
2.5
2.2
2.0
1.8